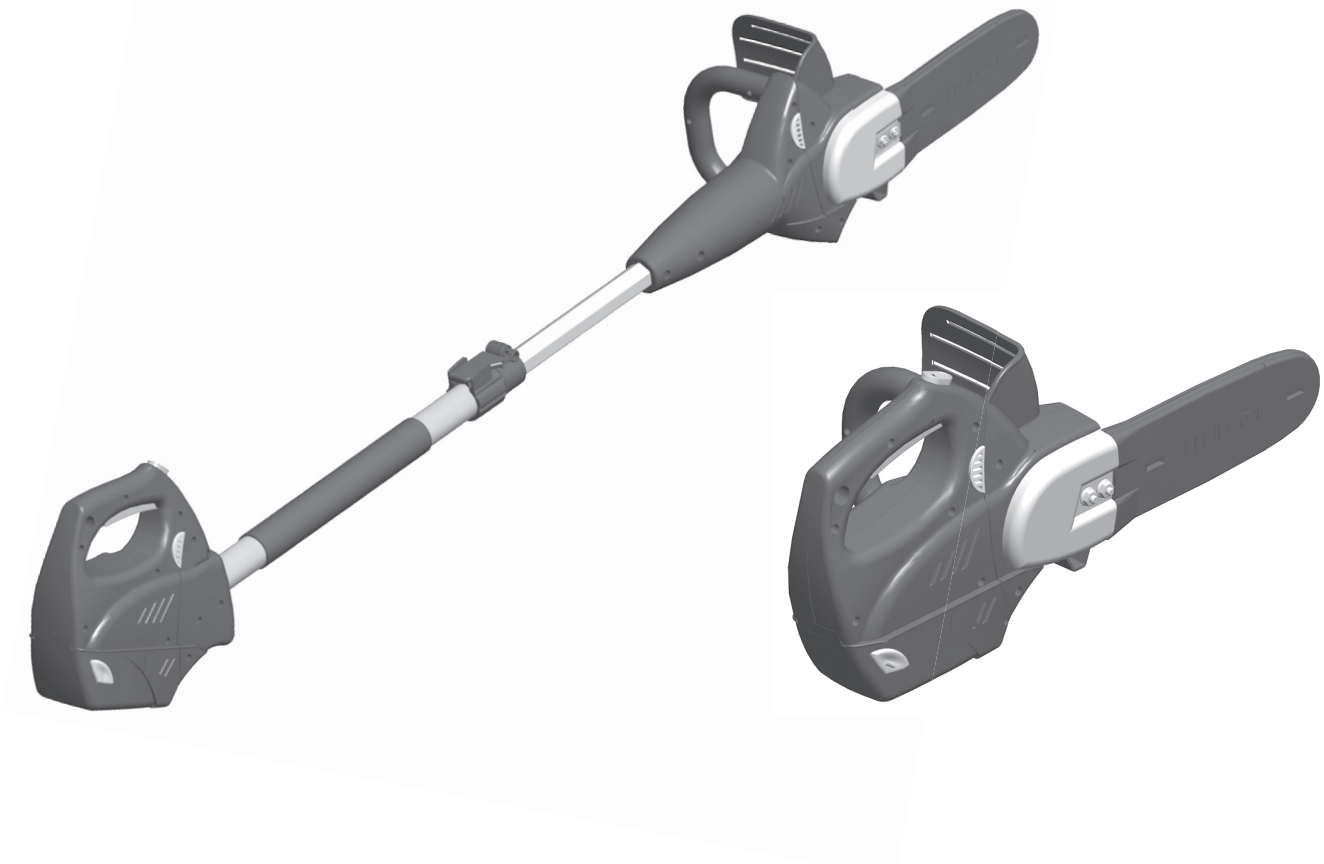
REMINGTON®

18 VOLT CORDLESS POLESAW
18 VOLT CORDLESS CHAINSAW

OWNER'S MANUAL



Polesaw Model
BPS188A (8"/20.3 cm)

Chain Saw Model
BS188A (8"/20.3 cm)

IMPORTANT: Read and understand this manual before assembling or operating this saw. Improper use of saw can cause severe injury. Keep this manual for future reference.

DO NOT RETURN PRODUCT TO STORE.
CALL 1-800-626-2237 FOR TECHNICAL ASSISTANCE
For more information, visit www.remingtonpowertools.com
This manual is your guide to safe and proper operation of the saw.
SAVE THESE INSTRUCTIONS.
Keep your purchase receipt for warranty coverage.

NO DEVUELVA EL PRODUCTO A LA TIENDA
Para más información, www.remingtonpowertools.com
PARA AYUDA TÉCNICA LLAME AL 1-800-626-2237
Este manual es su guía para utilizar esta sierra eléctrica de manera adecuada y segura.
GUARDE ESTAS INSTRUCCIONES.
Guarde su recibo de compra para cobertura de la garantía.

INTRODUCTION

Your Remington Cordless Polesaw and Cordless Chainsaw may have been purchased together (as a 2-in-1 polesaw/chainsaw) or seperate (chainsaw only). If the chainsaw was purchased separately, the pole is available as an accessory and may be purchased by visiting the "On-Line Outlet" at www.remingtonpowertools.com.

ENGLISH

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IMPORTANT SAFETY INFORMATION

READ ALL INSTRUCTIONS.

Make sure you read and understand all instructions in *Important Safety Information*. Improper use of this chain saw can cause severe injury or death from fire, electrical shock, body contact with moving chain, or falling wood.

⚠ DANGER: Serious injury or death from electrocution if power lines are contacted. Never use near any electrical source, wires, or power lines.

⚠ WARNING: When using a battery operated chain saw, basic safety precautions should always be followed to reduce the risk of fire and injury to persons, including the following:

⚠ WARNING: For safe operation read and understand owners manual. Wear face shield (and/or safety glasses) and hard hat to protect against falling debris. Always have a clear work area, retreat path, and be aware of limb/branch location to avoid falling limbs and debris. Keep bystanders 50 ft(5m) away when operating saw. Store indoors.

BEFORE OPERATING SAW

For safe operation read and understand this owner's manual before operating saw.

Only well-instructed adults should operate saw. Never allow children to operate saw.

Keep Work Area Clean

Cluttered work areas invite injuries. Before cutting, always provide the following:

- clear work area
- secure footing
- planned retreat path from falling tree

Consider Work Area Environment

1. Do not operate saw
   - in rain or snow
   - in damp or wet areas
   - where highly flammable liquids or gases are present
   - while in a tree or on a ladder
   - while on aerial booms, buckets, or platforms
2. Inspect tree before trimming or cutting down. Make sure there are no dead limbs or branches that may fall on you. Make allowance for branches to fall freely to the ground.

Use Right Tool

Use saw for cutting wood only.

- Do not use chain saw for purpose not intended.
- Do not use for cutting non-wood items.

Dress Properly

1. Wear snug-fitting clothes when operating saw. Do not wear loose clothing or jewelry. They can get caught in moving saw chain.
2. Wear hair covering to contain long hair.

Wear Safety Gear

Wear the following safety gear when operating saw:

- heavy-duty gloves (wear rubber gloves when working outdoors)
- steel-toed safety footwear with non-skid soles
- eye protection such as safety glasses, goggles, or face screen
- safety hard hat
- ear mufflers or ear plugs
- face or dust mask (if working in dusty areas)

Stay Alert

1. Watch what you are doing. Use common sense. Do not operate saw when you are tired.
2. Do not operate saw
   - while under the influence of alcohol, medication, or drugs
   - while in a hurry

Check for Damage

Do not operate saw

- if pole or saw is damaged, adjusted wrong, or not fully and securely assembled
- if trigger does not turn saw on and off. Chain must stop moving when you release trigger. Have faulty switch replaced by authorized service center (see *Technical Service*).

WHILE OPERATING SAW

Keep Work Area Clean

1. Keep work area clean. Cluttered areas invite injuries.
2. Do not use near power lines. Keep at least 10 feet away from electrical lines.
3. If two or more persons perform bucking and felling operations at the same time, provide plenty of distance between operations. Provide distance of at least twice the height of tree being felled.
4. Secure wood you are cutting by using clamps or chocks.

Keep Children, Bystanders, and Animals Away

1. Only saw user should be in work area. Keep bystanders 50 feet (15m) away when operating saw.
2. Do not let visitors contact chain saw.

Use Right Tool

1. Do not use the polesaw to cut down trees. Use the chain saw without pole attachment and only if you are trained or have expert help.
2. Do not cut small brush and saplings with the polesaw. Use the chain saw only, with extreme care. Slender matter may catch in the chain and be whipped toward you. This could also pull you off balance.

Stay Alert

1. Stay alert. Use common sense while operating saw.
2. Grip chain saw firmly with both hands. Never operate chain saw with one hand. Never use hand guard as handle.
3. Grip polesaw securely. Place one hand on the pole and the other on the handle.
4. Keep finger off trigger until ready to make cut.
5. Before starting saw, make sure chain is not touching anything.
6. To guard against electrical shock, avoid body contact with grounded objects such as pipes, fences, and metal posts.
7. Keep all parts of body away from chain when saw is running.
8. When cutting limb or tree trunk that is under tension, use extreme caution. Be alert for wood springing back. When wood tension is released, limb could spring back and strike operator causing severe injury or death.

Do Not Force Saw While Cutting

Apply light pressure. It will do the job better and safer at the rate for which it was intended.

Carrying Saw

Carry saw from one place to another
- with saw stopped
- with finger off trigger
- with guide bar and chain to rear
- Chain saw - by holding front handle (never use hand guard as handle)
- Polesaw - with telescoping pole returned to shortest position
- Polesaw - by holding the pole at the balance point (close to saw end)
- Remove battery and use scabbard when transporting saw.

⚠ WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects, or other reproductive harm.

⚠ WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known (to the state of California) to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:
- **lead from lead-based paints**
- **crystalline silica from bricks and cement and other masonry products**
- **arsenic and chromium from chemically-treated lumber**

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

KICKBACK

⚠ WARNING: Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a lightning fast reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious injury to user.

Kickback Safety Devices On This Saw

This saw has a low-kickback chain and reduced kickback guide bar. Both items reduce the chance of kickback. Low-kickback saw chain is a chain which met the kickback performance requirements of ANSI B175.1. Kickback can still occur with this saw.

Follow assembly instructions on page 11. Do not remove front hand guard. Do not replace front hand guard with substitute.

The following steps will reduce the risk of kickback.
- Use both hands to grip saw while saw is running:
- For chain saw, use both hands to grip saw while saw is running. Use firm grip. Thumbs and fingers must wrap around saw handles.
- For polesaw, use one hand to grip the handle and the other hand to grip the pole. Use firm grip. Thumbs and fingers must wrap around pole and handle.
- Keep all safety items in place on saw. Make sure they work properly.
- Chain saw - do not overreach or cut above shoulder height.
- Polesaw - do not overreach or extend arms above shoulder height.
- Keep solid footing and balance at all times.
- Stand slightly to left side of saw. This keeps your body from being in direct line with chain.
- Do not let guide bar nose touch anything when chain is moving (see Figure 1).
- Never try cutting through two logs at same time. Only cut one log at a time.
- Do not bury guide bar nose or try plunge cut (boring into wood using guide bar nose).
- Watch for shifting of wood or other forces that may pinch chain.
- Use extreme caution when reentering a previous cut.
- Use low-kickback chain and guide bar supplied with this chain saw. Only replace these parts with chains and guide bars listed in this manual.
- Never use dull or loose chain. Keep chain sharp with proper tension.

Saw Maintenance and Kickback Safety

Follow maintenance instructions in this manual. Proper cleaning of saw and chain and guide bar maintenance can reduce chances of kickback. Inspect and maintain saw after each use. This will increase the service life of your saw. Note: Even with proper sharpening, risk of kickback can increase with each sharpening.

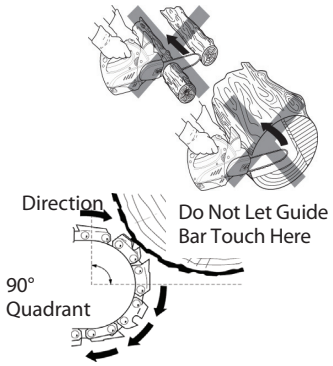


Figure 1 - Kickback Hazard Example: Do Not Let Nose of Guide Bar Touch Object While Chain is Moving

MAINTENANCE AND STORAGE OF SAW

Disconnect Battery

Remove battery from saw
- when not in use
- before moving from one place to another
- before tensioning saw chain
- before servicing
- before changing accessories or attachments, such as saw chain and pole.

Check for Damage

Inspect saw before and after each use.
- Check saw closely if guard or other part has been damaged.
- Check for any damage that may affect operator safety or operation of saw.
- Check for alignment or binding of moving parts.
- Check for broken or damaged parts. Do not use saw if damage affects safety or operation. Have damage repaired by authorized service center.

General Maintenance

Maintain saw with care.

- Never expose saw to rain.
- Keep chain sharp, clean, and lubricated for better and safer performance.
- Follow steps outlined in this manual to sharpen chain.
- Keep handles dry, clean, and free of oil and grease.
- Keep all screws and nuts tight.
- Keep power cord on battery charger away from heat, oil, and sharp edges.

Service

When servicing, use only identical replacement parts.

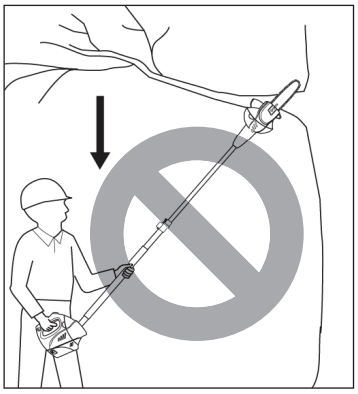
Storage

When not in use, always store saw

- with battery removed
- in a high or locked place, out of children's reach
- in a dry place
- with scabbard over guide bar
- indoors

Save these instructions. It is your guide to safe and proper operation of this saw.

POLESAW TRIMMING PRECAUTIONS

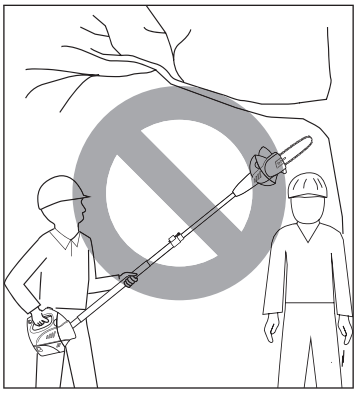


Never stand directly under the limb you are trimming. Always position yourself out of the path of falling debris.

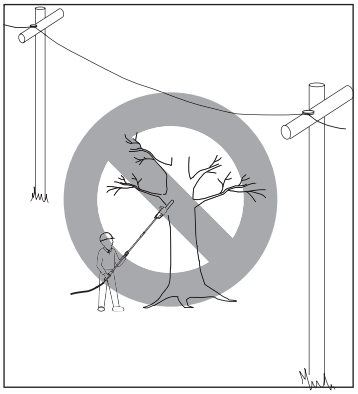
Never stand on a ladder or other type of unstable support while using the polesaw.

Always use both hands to operate polesaw. Keep a firm, steady pressure on the polesaw while cutting but do not try to force the saw through the wood.

Do not use the polesaw to cut limbs larger in diameter than the length of the guide bar.



Keep other persons away from cutting end of polesaw and at a safe distance from work area.



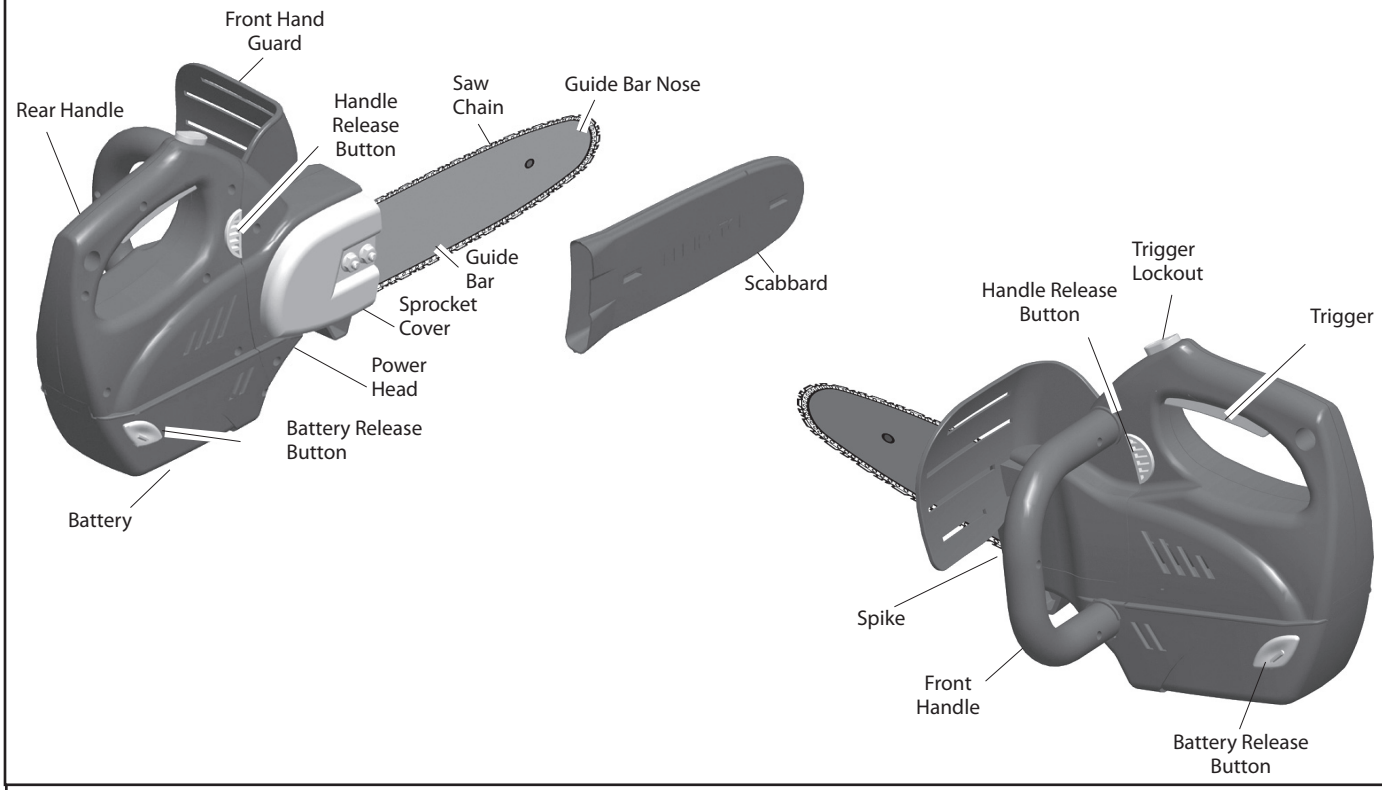
Do not use polesaw near cable, electric power or telephone lines. Maintain a minimum clearance of 10 feet from all power lines.

IMPORTANT: Read and understand this manual before assembling or operating this chain saw. Improper use of saw can cause severe injury. Keep this manual for future reference.

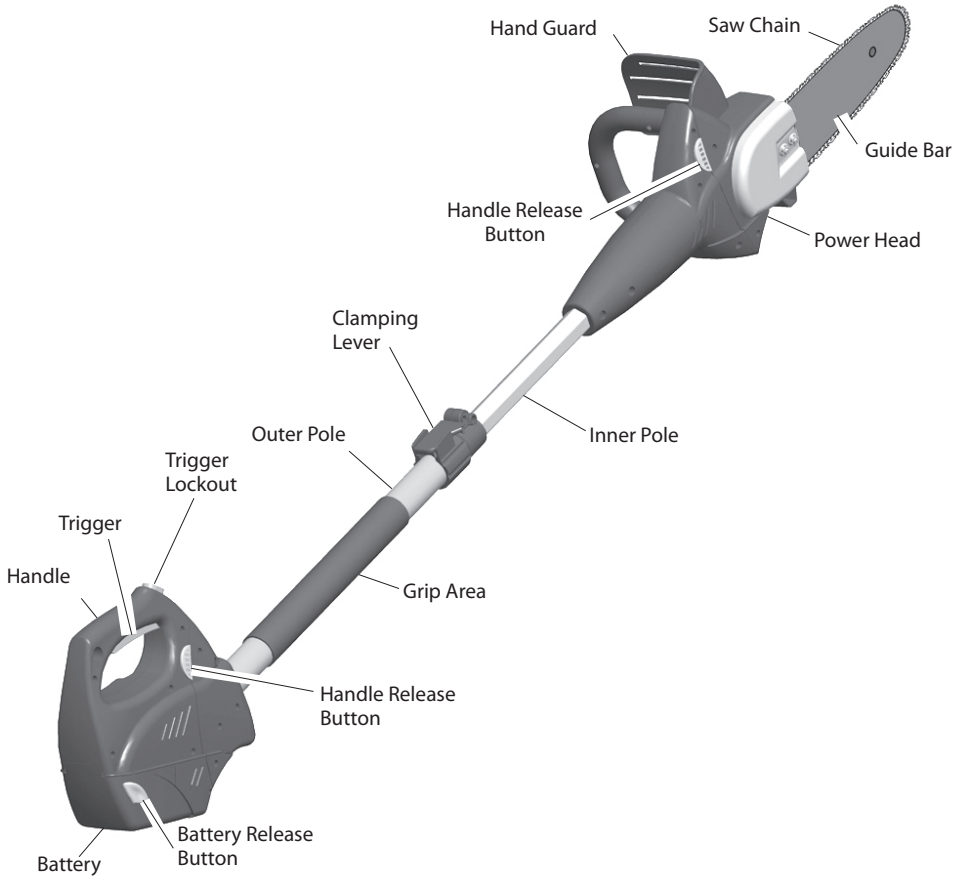
UNPACKING

1. Remove all items from carton.
2. Check all items for any shipping damage. If you find any damage or if any parts are missing, promptly inform dealer where you bought chain saw.

CHAIN SAW



POLESAW



CHAIN SAW TERMS AND DEFINITIONS

Bucking Process of cutting a felled tree or log into lengths.

Felling Process of cutting down a tree.

Felling Cut Final cut when felling a tree. Make this cut on opposite side of tree from notching cut.

Front Handle Located at front of saw body.

Front Hand Guard Shield between front handle and guide bar. Protects left hand while using saw.

Guide Bar Metal bar that extends from saw body. The guide bar supports and guides chain.

Guide Bar Nose Tip or end of guide bar.

Inner Pole The moveable section of tubing to which the saw is attached.

Kickback Quick backward and upward motion of guide bar. Kickback may occur when tip of guide bar touches an object while chain is moving. The guide bar will kick up and back towards operator.

Limbing Process of cutting limb(s) from a felled tree.

Low-Kickback Chain Chain that reduces chance of kickback as required by ANSI B175.1.

Normal Cutting Position Stance used while making bucking and felling cuts.

Notching Cut Notch cut in tree that directs fall of tree.

Outer Pole Retains the moveable inner pole.

Power Head Chain saw without chain and guide bar. Also known as saw body.

Pushback (Kickback, Pinch) Rapid pushback of chain saw. Pushback may occur if chain along top of guide bar is pinched, caught, or contacts a foreign object.

Rear Handle Handle located at rear of saw body.

Reduced Kickback Guide Bar Guide bar that reduces chance of kickback.

Replacement Chain Chain that complies with ANSI B175.1 when used with a specific saw. It may not meet ANSI requirements when used with other saws.

Saw Chain (Chain) Loop of chain having cutting teeth for cutting wood. The motor drives chain. The guide bar supports chain.

Spiked Bumper (Spike) Pointed teeth at front of saw body beside guide bar. Keep spiked bumper in contact with wood when felling or bucking. It helps maintain position of saw while cutting.

Sprocket Toothed wheel that drives chain.

Switch Device that completes or interrupts electrical circuit to motor of saw.

Switch Linkage This device connects switch to trigger. It moves switch when you squeeze trigger.

Trigger Lockout Device that reduces accidental starting of saw.

Trigger Device that turns saw on and off. Squeezing trigger turns saw on. Releasing trigger turns saw off.

Trimming (Pruning) Process of cutting limb(s) from a living tree.

Undercut An upward cut from underside of log or limb. This is done while in normal cutting position and cutting with top of guide bar.

PROTECTIVE BATTERY TERMINAL CAP

⚠ WARNING: Do not store or carry battery so that metal objects can contact exposed battery terminals. For example, do not place battery in aprons, pockets, tool boxes, product kit boxes, drawers, etc. with loose nails, screws, keys, jewelry etc. without battery cap.

A protective battery terminal cap is provided for use whenever the battery is out of the tool or charger. Remove cap before placing battery in charger or tool.

SAFETY WARNINGS

1. This manual contains important safety and operating instructions.
2. Before using battery charger, read all instructions and cautionary markings on battery charger, battery pack, and product using battery pack.

⚠ CAUTION: To reduce the risk of injury, charge only Remington brand batteries. Other types of batteries may burst causing personal injury and damage.

3. Do not expose charger to rain or snow.
4. Use of an attachment not recommended or sold by Remington brand may result in a risk of fire, electric shock, or injury to persons.
5. To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
6. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire, electric shock or electrocution.
   a. Two-wire cords can be used with 2-wire or 3-wire extension cords. Only round jacketed extension cords should be used, and we recommend that they be listed by Underwriters Laboratories (U.L.). If the extension is to be used outside, the cord must be suitable for outdoor use. Any cord marked for outdoor use can also be used for indoor work. The letters "W" or "WA" on the cord jacket indicate that the cord is suitable for outdoor use.
   b. An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety, and to prevent loss of power and overheating. The smaller the gauge number of the wire, the greater the capacity of the cable; that is, 16 gauge has more capacity than 18 gauge. When using more than one extension to make up the total length, be sure each extension contains at least the minimum wire size.

CHART FOR MINIMUM WIRE SIZE (AWG) OF EXTENSION CORDS NAMEPLATE RATING AMPS – 0 – 10.0

Cord Length	AWG Cord Size
25 feet	18 AWG
50 feet	18 AWG
100 feet	16 AWG
150 feet	14 AWG

7. Use only the supplied charger (P/N 121397-01)when charging. The use of any other charger could damage the battery or create a hazardous condition.
8. Use only one charger when charging.
9. Use only Remington RB18V OR RBE18V battery packs with this product.
10. Do not attempt to open the charger. There are no customer serviceable parts inside. If damaged, call DESA Power Tools Technical Service.
11. DO NOT incinerate the battery pack even if they are severely damaged or completely worn out. The batteries can explode in a fire.
12. A small leakage of liquid from the battery pack cells may occur under extreme usage, charging, or temperature conditions. This does not indicate a failure. However, if the outer seal is broken and this leakage gets on your skin:
    - Wash quickly with soap and water.
    - Neutralize with a mild acid such as lemon juice or vinegar.
    - If the battery liquid gets in your eyes, flush them with clean water for a minimum of 10 minutes and seek immediate medical attention.

MEDICAL NOTE: The liquid is a 25-35% solution of potassium hydroxide.

CHARGING BATTERY

The battery pack is not fully charged at the factory. Before attempting to charge the battery pack, thoroughly read all Safety Instructions.

The charger is designed to use standard household 120 volt 60 Hz power.

1. Plug cord from charger into charger base. (See Figure 2)

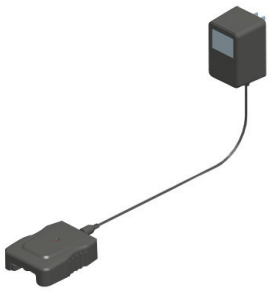


Figure 2 - Plug Charger into Base

2. Plug the charger into any standard 120 Volt 60 Hz electrical outlet. *IMPORTANT:* Do not charge by means of an engine generator or DC power source. Use only 120V AC.
3. Slide the charger onto the battery pack as shown in Figure 3. The LED will light up, Let the battery pack charge until red LED turns off. After the initial charge, under normal usage, your battery pack should be fully charged in 3 to 9 hours.

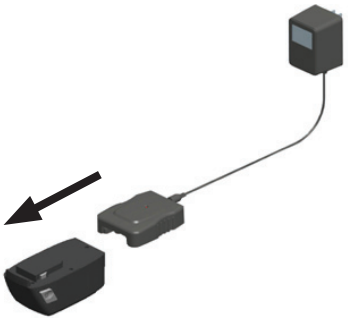


Figure 3 - Slid Charger onto Battery

4. Unplug charger. Remove the charger by sliding off (See Figure 4).
5. Place the battery pack in the tool and be certain that it is inserted fully into the tool cavity until it "clicks" into place.

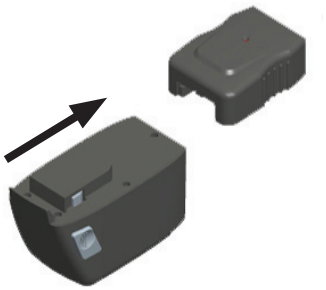


Figure 4 - Remove Charger

IMPORTANT CHARGING NOTES

1. After normal usage, your battery pack should be fully charged in 3 to 9 hours. If the battery pack is run-down completely, it may take up to 9 hours to become fully charged. Your battery pack was sent from the factory in an uncharged condition. For best performance charge battery until red LED turns off. Allow the battery to cool down 30 minutes before charging after using the saw. *NOTE:* A hot battery placed in the charger will not charge.
2. DO NOT charge the battery pack in an air temperature below 40°F (4,5 °C) or above 105°F (40,5 °C). This is important and will prevent serious damage to the battery pack. Longest life and best performance can be obtained if battery pack is charged when air temperature is about 75°F (24°C).
3. While charging, the charger may hum and become warm to touch. This is a normal condition and does not indicate a problem.
4. If the battery pack does not charge properly
   - Check current at receptacle by plugging in a lamp or other appliance.
   - Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights.
   - Move charger and battery pack to a surrounding air temperature of 40°F (4,5°C) to 105°F (40,5 °C)
   - If the receptacle and temperature are OK, and you do not get proper charging contact DESA Power Tools.
5. The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE using product with its battery pack in a depleted condition.
6. To prolong battery life, avoid leaving the battery pack on charger for extended periods of time (over 30 days without use). Although overcharging is not a safety concern, it can significantly reduce overall battery life.
7. The battery pack will reach optimum performance after being cycled 5 times during normal usage. There is no need to run the batteries down completely before recharging. Normal usage is the best method of discharging and recharging the batteries.

CHAIN SAW INFORMATION

CHAIN SAW ASSEMBLY

⚠ WARNING: Cutting edges on chain are sharp. Use protective gloves when handling chain.

1. Align rib on chain saw power head with groove in main handle (see Figure 5).
2. Slide power head into main handle until units "snap" together (see Figure 6). *IMPORTANT:* Both release buttons on main handle must be fully engaged.
3. Slide battery onto main handle until release buttons "snap" together (see Figure 7).

   Note: Fully charge battery before using for first time. See *Charging Battery.*

NOTE: Your Remington Cordless Polesaw and Cordless Chainsaw may have been purchased together (as a 2-in-1 polesaw/ chainsaw) or seperate (chainsaw only). If the chainsaw was purchased separately, the pole is available as an accessory and may be purchased by visiting the "On-Line Outlet" at www.desatech.com.

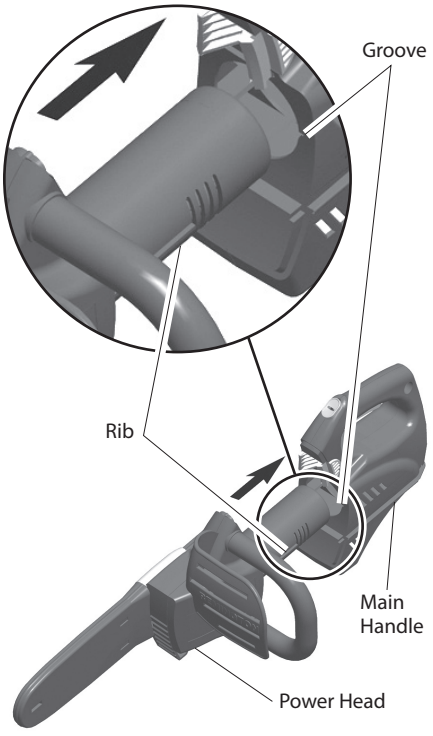


Figure 5 - Align Power Head with Handle

Figure 6 - Assembled Power Head Main Handle

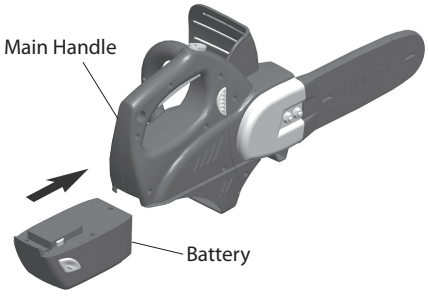


Figure 7 - Assemble Battery onto Main Handle

SAW CHAIN TENSION

⚠ WARNING: Remove battery from chain saw before adjusting saw chain tension. Severe injury or death could occur from body contact with moving chain.

⚠ WARNING: Cutting edges on chain are sharp. Use protective gloves when handling chain.

⚠ WARNING: Maintain proper chain tension always. A loose chain will increase the risk of kickback. A loose chain may jump out of guide bar groove. This may injure operator and damage chain. A loose chain will cause chain, guide bar, and sprocket to wear rapidly.

Note: The saw chain tension is properly set at the factory. A new chain will stretch. Check new chain tension frequently (after disconnecting battery) during the first 2 hours of operation. Allow chain to cool down. Follow steps below to check saw chain tension.

1. Remove battery from chain saw.
2. Place chain saw on a firm surface to check chain tension.
3. Pull chain with light force 1/8" away from bottom of guide bar and release (see Figure 8). If chain lightly snaps back into place, tension is correct. A slight sag (1/16" or less) between chain and bottom of guide bar is acceptable.

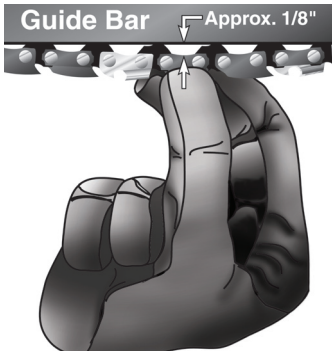


Figure 8 - Check Chain Tension

Saw Chain Tension Adjustment

1. Loosen guide bar nuts before adjusting chain (see Figure 9).

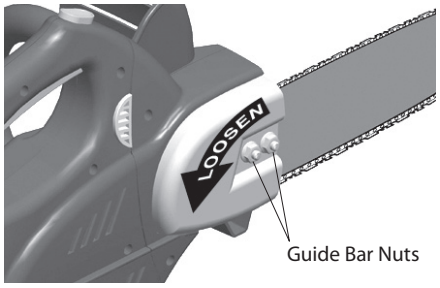


Figure 9 - Loosen Guide Bar Nuts

2. Turn adjusting screw on front of power head clockwise until slack is out of chain (see Figure 10).
3. Wearing protective gloves, pull down on chain to check chain tension (See Step 3 *Saw Chain Tension*).

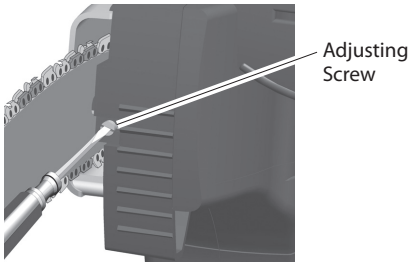


Figure 10 - Turning Adjusting Screw

4. Do not over-tension chain. Over-tensioning will cause excessive wear and will reduce the life of the guide bar and chain. Over-tensioning also reduces the amount of cuts per battery charge.
5. After chain tension is correct, tighten guide bar nuts firmly (see Figure 11).

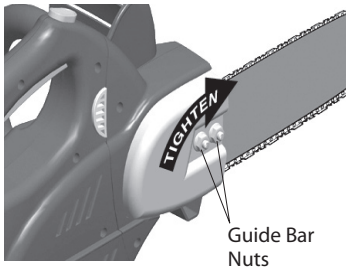


Figure 11 - Tighten Guide Bar Nuts

OILING CHAIN

IMPORTANT: Applying oil to the chain and guide bar reduces friction and excessive wear. Improper oiling will cause excessive wear and reduce the life of the chain and guide bar.

1. Fill included squeeze bottle with SAE #30 or #40 motor oil or bar chain oil.
2. Apply several drops of oil between chain and guide bar (see Figure 12.

Note: Oil should be applied before each use and every 5 minutes during continuous use.

Figure 12 - Applying Oil to Chain

CUTTING WITH THE CHAIN SAW

1. Attach battery to saw.
2. Make sure section of log to be cut is not laying on ground. This will keep chain from touching ground as it cuts through log. Touching ground with moving chain will dull chain.
3. Use both hands to grip saw. Always use left hand to grip front handle and right hand to grip rear handle. Use firm grip. Thumbs and fingers must wrap around saw handles (see Figure 13).
4. Make sure your footing is firm. Keep feet apart. Divide your weight evenly on both feet.

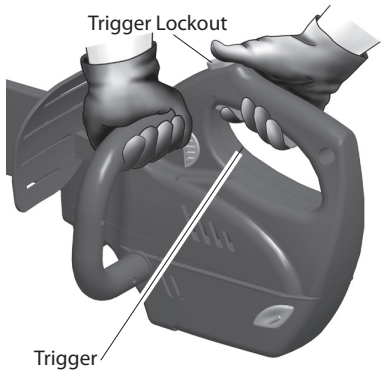


Figure 13 - Trigger Lockout and Trigger Location

5. When ready to make a cut, press in trigger lockout with right thumb and squeeze trigger (see Figure 13). This will turn saw on. Releasing trigger will turn saw off. Always turn saw on before contacting saw chain with log.
6. When starting a cut, place moving chain against wood. Hold saw firmly in place to avoid possible bouncing or skating (sideways movement) of saw.
7. Guide saw using light pressure. Do not force saw. The motor will overload and can burn out. It will do the job better and safer at the rate for which it was intended.
8. Remove saw from a cut with saw running. Stop saw by releasing trigger. Make sure chain has stopped before setting saw down.
9. Practice until you can maintain a steady, even cutting rate.

FELLING A TREE (Cutting Down a Tree)

⚠ WARNING:

- **Avoid kickback. Kickback can result in severe injury or death. See Kickback, page 5, to avoid risk of kickback.**
- **Do not fell a tree without ample skill or expert help.**
- **Keep children, animals, and bystanders away from area when felling a tree.**
- **If two or more persons perform bucking and felling operations at the same time, provide ample distance between operations. Provide distance of at least twice the height of tree being felled.**

⚠ WARNING: When felling a tree, be aware of your surroundings. Do not endanger any person, strike utility lines, or cause property damage. If tree strikes utility lines, contact utility company at once.

Felling is the process of cutting down a tree. Make sure your footing is firm. Keep feet apart. Divide your weight evenly on both feet. Follow directions below to fell a tree.

Before Felling a Tree

1. Before felling, inspect tree. Make sure there are no dead limbs or branches that may fall on you. Study natural lean of tree, location of larger branches, and wind direction. This will help you judge which way tree will fall.
2. Clear work area around tree.
3. Plan and clear a retreat path before felling. Make retreat path opposite to planned direction of fall of tree and at 45° angle (see Figure 14).
4. Remove dirt, stones, loose bark, nails, staples, and wire from tree where you will make felling cuts.
5. Stay on uphill side when felling tree. Tree could roll or slide downhill after falling.

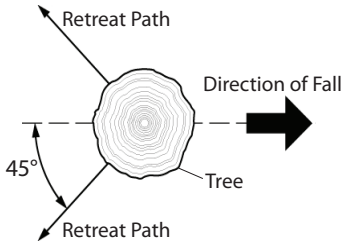


Figure 14 - Retreat Path From Tree

Felling Procedure

A) Felling Notch

A properly placed felling notch will determine direction tree will fall. Place felling notch on side of tree in direction you want tree to fall (see Figure 15).

Follow directions below to create a felling notch.

1. Make lower notch cut as close to ground as possible. Hold saw so guide bar is horizontal. Cut 1/3 the diameter of tree trunk (see Figure 15). *Note:* Always make this horizontal lower notch cut first. If you make this cut second, tree can pinch chain or guide bar.
2. Start upper notch cut the same distance above first cut as first cut is deep.

   Example: If lower notch cut is eight inches deep, start upper notch cut eight inches above it. Cut downward at 45° angle. The upper notch cut should meet end of lower notch cut (see Figure 15).
3. Remove tree trunk wedge created by notching cuts.

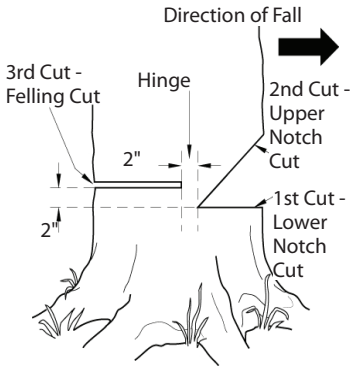


Figure 15 - Felling A Tree

B) Felling Cut

1. Make felling cut two inches higher than lower notch cut and on opposite side of tree (see Figure 15). Keep felling cut parallel to lower notch cut.
2. Cut towards notch.
3. As felling cut nears hinge, tree should begin to fall. *Note:* If needed, drive wedges into felling cut to control direction of fall. If tree settles back and pinches chain, drive wedges into felling cut to remove saw. Only use wedges made of wood, plastic, or aluminum. Never use wedge made of steel. This could cause kickback and damage to chain.
4. When tree begins to fall, quickly
   - remove saw from felling cut
   - release trigger to turn saw off
   - put saw down
   - exit area using retreat path

⚠ WARNING: Do not cut all the way through tree. Leave about two inches of tree diameter uncut directly behind felling notch (see Figure 15). This uncut portion acts as a hinge. The hinge helps keep tree from twisting and falling in wrong direction.

⚠ WARNING: Be alert for falling overhead limbs. Watch your footing while exiting area.

LIMBING A TREE

⚠ WARNING: Avoid kickback. Kickback can result in severe injury or death. See *Kickback* to avoid risk of kickback.

⚠ WARNING: When cutting limb that is under tension, use extreme caution. Be alert for wood springing back. When wood tension is released, limb could spring back and strike operator causing severe injury or death.

Limbing is removing branches from a fallen tree. Make sure your footing is firm. Keep feet apart. Divide your weight evenly on both feet. Do not remove larger limbs under tree that support log off ground. Remove each limb with one cut (see Figure 16). Clear cut limbs from work area often. This will help maintain a safe work area.

Make sure you start your cut where limb will not pinch saw during cutting. To avoid pinching, start cut on freely hanging limbs from above limb. Start cut on limbs under tension from under limb. If pinch occurs, turn saw off, lift limb, and remove saw.

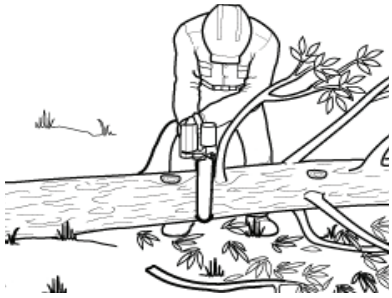


Figure 16 - Limbing A Tree

BUCKING A LOG

⚠ WARNING: Avoid kickback. Kickback can result in severe injury or death. See *Kickback* to avoid risk of kickback.

⚠ WARNING:

- **If on slope, make sure log will not roll down hill. Secure log by using wooden stakes. Drive wooden stakes into ground on downhill side of log. Stand on uphill side of log while cutting. Log may roll after cutting.**
- **Never try cutting through two logs at same time. This could increase the risk of kickback.**
- **While cutting log, never hold log with your hand, leg, or foot.**
- **While cutting log, never allow another person to hold log.**
- **Turn off and unplug saw before moving from one place to another.**

Bucking a log is cutting a log into sections. Make sure your footing is firm. Keep feet apart. Divide your weight evenly on both feet. When possible, raise log or section off ground. Do this by using limbs, logs, chocks, etc.

When cutting through log, maintain control by reducing cutting pressure near end of cut. Do not relax your grip on chain saw handles. Do not let moving chain touch ground. Ground will dull moving chain. After cutting through log, release trigger to turn saw off before moving saw.

Follow directions below to buck a log.

Entire Length Of Log On Ground

Cut log from top (see Figure 17).

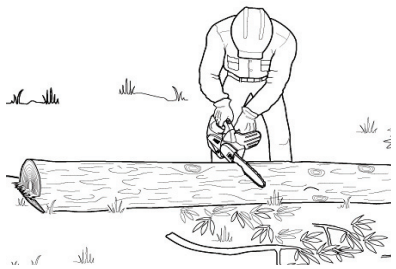


Figure 17- Bucking Log With Entire Length On Ground

Log Supported On One End

1. Make first cut on underside of log (see Figure 18). Use top of guide bar to make this cut. Cut 1/3 through diameter of log. This cut will keep section from splintering when cut.
2. Make second cut directly above first cut. Cut down to meet first cut. This cut will keep log from pinching guide bar and chain.

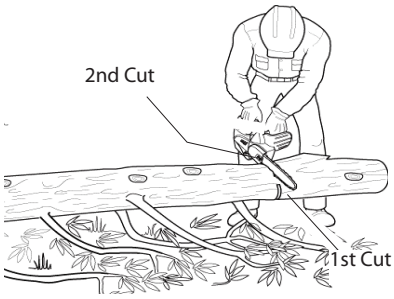


Figure 18 - Bucking Log When Log Is Supported On One End

Log Supported On Both Ends

1. Make first cut from above log (see Figure 19). Cut 1/3 through diameter of log. This cut will keep section from splintering when cut.
2. Make second cut on underside of log, directly under first cut. Use top of guide bar to make this cut. Cut up to meet first cut. This will keep log from pinching guide bar and chain.

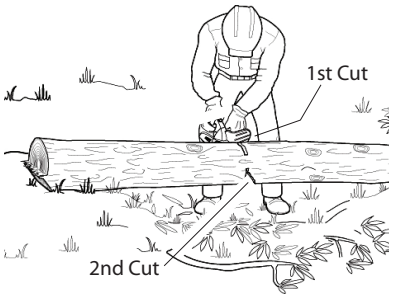


Figure 19 - Bucking Log When Log Is Supported On Both Ends

TRIMMING A TREE (PRUNING)

⚠ WARNING: Avoid kickback. Kickback can result in severe injury or death. See *Kickback* to avoid risk of kickback.

⚠ WARNING: Do not extend arms above shoulders when using polesaw.

⚠ CAUTION: Seek professional help if facing conditions beyond your ability.

Trimming a tree is the process of cutting limbs from a living tree. Make sure your footing is firm. Keep feet apart. Divide your weight evenly on both feet. Follow directions below to trim a tree.

1. Make first cut six inches from tree trunk on underside of limb. Use top of guide bar to make this cut. Cut 1/3 through diameter of limb (see Figure 20).
2. Move two to four inches farther out on limb. Make second cut from above limb. Continue cut until you cut limb off.
3. Make third cut as close to tree trunk as possible on underside of limb stub. Use top of guide bar to make this cut. Cut 1/3 through diameter of stub.
4. Make fourth cut directly above third cut. Cut down to meet third cut. This will remove limb stub.

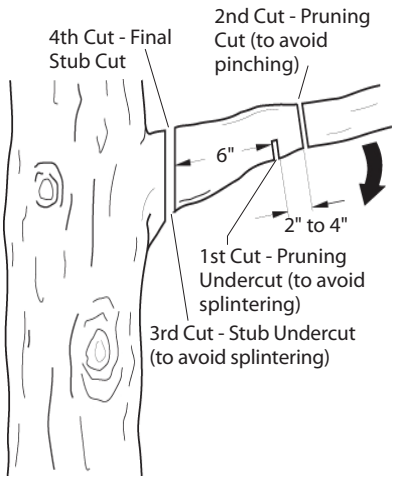

4th Cut - Final Stub Cut
2nd Cut - Pruning Cut (to avoid pinching)
6"
2" to 4"
1st Cut - Pruning Undercut (to avoid splintering)
3rd Cut - Stub Undercut (to avoid splintering)

Figure 20 - Cutting A Limb

POLESAW INFORMATION

POLESAW ASSEMBLY

⚠ WARNING: Cutting edges on chain are sharp. Use protective gloves when handling chain.

1. Remove battery from chain saw.
2. Separate main handle from chain saw power head by pressing both release buttons on main handle and pulling apart (see Figure 21).

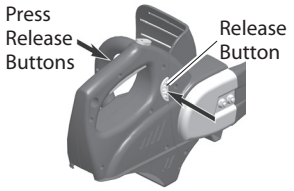


Figure 21- Separate Main Handle from Powerhead.

3. Align rib on chain saw power head with groove in power head adapter on pole (see Figure 22).

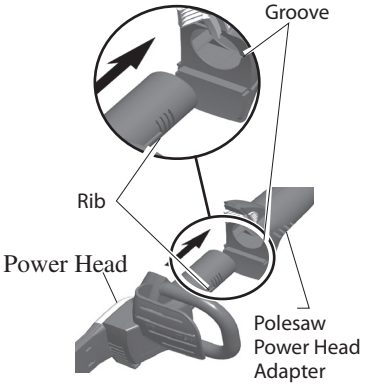


Figure 22 - Align Power Head with Power Head Adapter

4. Slide power head into power head adapter until units "snap" together (see Figure 23). *IMPORTANT:* Both release buttons on power head adapter must be fully engaged.

Figure 23 - Assembled Power Head and Power Head Adapter

5. Align rib on handle adapter on pole with groove in main handle (see Figure 24).

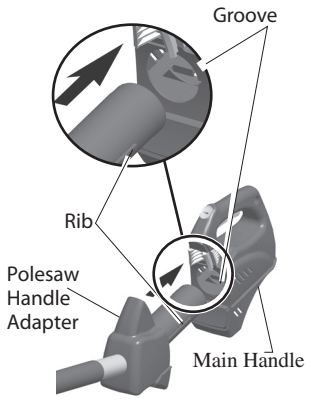


Figure 24 - Align Main Handle with Handle Adapter

6. Slide main handle into handle adapter until units "snap" together (see Figure 25). *IMPORTANT:* Both release buttons on main handle must be fully engaged.

Figure 25 - Assembled Main Handle and Handle Adapter

7. Slide battery onto main handle until release buttons "snap" together (see Figure 26).

   Note: Fully charge battery before using for first time. See *Charging Battery,* page 10

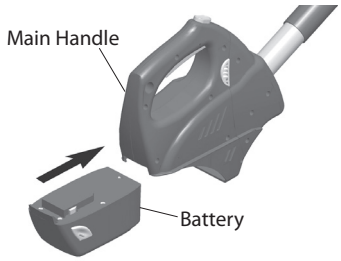


Figure 26 - Assembled Battery onto Main Handle

ADJUSTING POLE LENGTH

The Remington brand polesaw has a telescoping pole assembly that will extend from 47 inches (fully retracted) to 83 inches (fully extended). A cam levered collet is used to hold the pole in position at any extended length.

1. To extend the pole, loosen the clamping lever (see Figure 27). Pole will slide freely.
2. Pull inner pole section out to desired length of extension. *Note:* Only extend pole to minimum length required to reach limb that is being cut.
3. To lock pole in position, tighten clamping lever (see Figure 27).

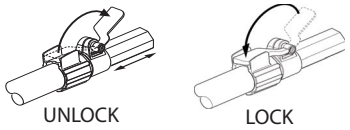


Figure 27 - Extending Telescopic Pole

CUTTING WITH THE POLESAW

1. Attach battery to saw.
2. Use both hands to grip polesaw. Use only designated grip areas when operating polesaw (see Figure 28). Use firm grip. Thumbs and fingers must wrap around polesaw handle and pole.
3. Make sure your footing is firm. Keep feet apart. Divide your weight evenly on both feet.

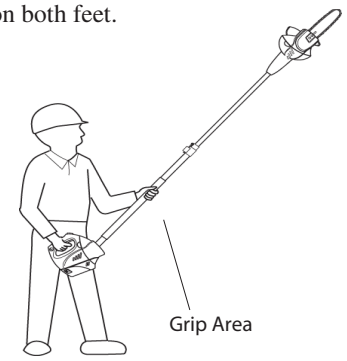


Figure 28- Designated Grip Areas

4. When ready to make a cut, press in trigger lockout and squeeze trigger (see Figure 29). This will turn polesaw on. Releasing trigger will turn polesaw off. Make sure saw is running before starting a cut.
5. When starting a cut, place moving chain against wood. Hold polesaw firmly in place to avoid possible bouncing or skating (sideways movement) of saw.
6. Guide polesaw using light pressure. Do not force saw. The motor will overload and can burn out. It will do the job better and safer at the rate for which it was intended.
7. Remove polesaw from a cut with saw running. at full speed. Stop polesaw by releasing trigger. Make sure chain has stopped before setting polesaw down.

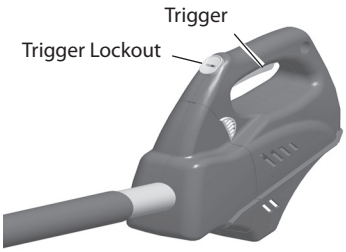


Figure 29- Polesaw Handle with Trigger Lockout

ENGLISH

NOTICE: Below are instructions for servicing your chain saw. Any servicing not mentioned below should be done by an authorized service center.

CLEANING SAW BODY

⚠ WARNING: Remove battery from chain saw before servicing. Severe injury or death could occur from body contact with moving chain.

⚠ WARNING: Cutting edges on chain are sharp. Use protective gloves when handling chain.

⚠ WARNING: When cleaning saw body,

- **do not submerge saw in any liquids**
- **do not use products that contain ammonia, chlorine, or abrasives**
- **do not use chlorinated cleaning solvents, carbon tetrachloride, kerosene, or gasoline**

Keep saw body clean. Use a soft cloth dampened with a mild soap and water mixture. Wipe saw body to clean.

CARE OF GUIDE BAR

Uneven bar wear causes most guide bar problems. Incorrect sharpening of chain cutter and depth gauge settings often cause this. When bar wears unevenly, it widens guide bar groove (see Figure 30). This causes chain clatter and rivet popping. Saw will not cut straight. Replace guide bar if this occurs.

Inspect guide bar before sharpening chain. A worn or damaged guide bar is unsafe. A worn or damaged guide bar will damage chain. It will also make cutting harder.

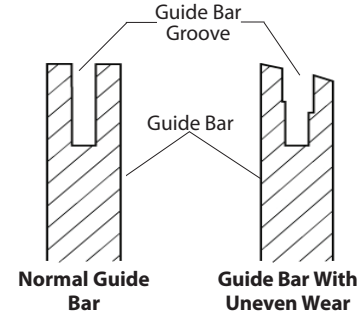


Figure 30 - Guide Bar Cross Section Showing Uneven Bar Wear

Normal Guide Bar Maintenance

1. Remove guide bar from chain saw.
2. Remove sawdust from guide bar groove periodically. Use putty knife or wire (see Figure 31).
3. Clean oil slots after each day of use.
4. Remove burrs from sides of guide bar. Use flat file to make side edges square.

Replace guide bar when

- bar is bent or cracked
- inside groove of bar is badly worn

Note: When replacing guide bar, see *Replacement Parts and Accessories* for replacement information. See *Parts Lis* for correct bar.

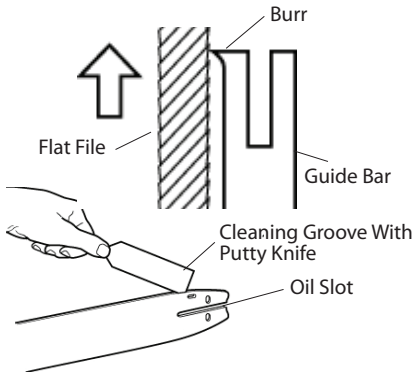


Figure 31 - Guide Bar Maintenance

SHARPENING SAW CHAIN

⚠ WARNING: Remove battery from chain saw before servicing. Severe injury or death could occur from body contact with moving chain.

⚠ WARNING: Cutting edges on chain are sharp. Use protective gloves when handling chain.

Keep chain sharp. Your saw will cut faster and more safely. A dull chain will cause undue sprocket, guide bar, chain, and motor wear. If you must force chain into wood and cutting creates only sawdust with few large chips, chain is dull.

Items Needed to Sharpen Chain

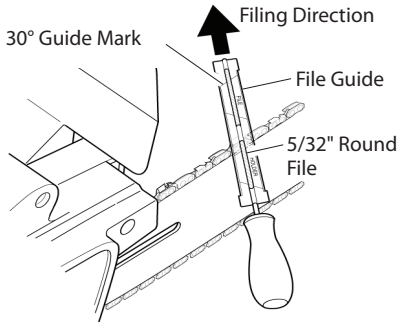
Purchase these items from your local dealer, hardware store, or chain saw supplies outlet.

- 5/32" round file
- Depth gauge tool
- File guide
- Vise
- Medium sized flat file

Sharpening Cutters

Use file guide for 30° filing.

1. Adjust chain for proper tension (see *Saw Chain Tension,* page 11).
2. Clamp guide bar in vise to hold saw steady. *Note:* Do not clamp chain.
3. Press 5/32" round file (attached to file guide) into groove between top plate and depth gauge on chain. File guide should rest on both top plate and depth gauge (see Figure 32). *Note:* File at midpoint of guide bar.



Note: This illustration shows file guide placement and filing direction for sharpening cutters on left side of chain.

Figure 32 - File and File Guide Placement on Chain

4. Hold file guide level. Make sure 30° mark on file guide is parallel to center of guide bar (see Figure 33). This will insure that you file cutters at 30° angle.
5. File from inside towards outside of cutter until sharp. Only file in this one direction (see Figure 33). *Note:* Two or three strokes with file should sharpen cutter.
6. After each cutter is sharpened, move chain forward to sharpen next cutter. File all cutters on one side of chain.
7. Move to other side of chain and repeat process.

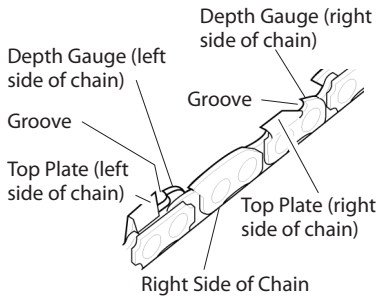

Depth Gauge (right side of chain)
Depth Gauge (left side of chain)
Groove
Groove
Top Plate (left side of chain)
Top Plate (right side of chain)
Right Side of Chain

Figure 33 - Chain Part Locations

Filing Cutter Depth Gauges

The cutter depth gauge clearance is reduced as cutters are sharpened. After every second or third sharpening, reset cutter depth gauges.

1. Place depth gauge tool (.025") firmly across top of two cutters. Make sure depth gauge enters slot in depth gauge tool (see Figure 34).
2. Use medium flat file. File depth gauge level with depth gauge tool.
3. Remove depth gauge tool. With flat file, round off front corner of cutter depth gauge (see Figure 35).

After several hand filings, have authorized service center or sharpening service machine sharpen chain. This will insure even filing.

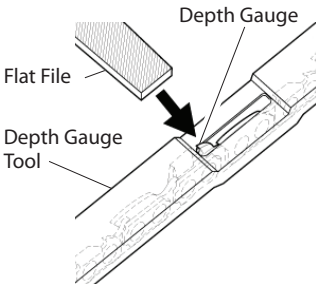


Figure 34 - Depth Gauge Tool On Chain

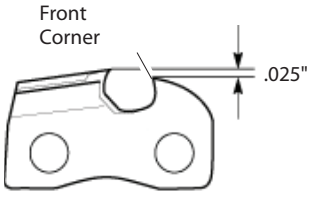


Figure 35 - Round Off Front Corner Of Depth Gauge

REPLACING SAW CHAIN

⚠ WARNING: Remove battery from chain saw before adjusting saw chain tension. Severe injury or death could occur from body contact with moving chain.

⚠ WARNING: Cutting edges on chain are sharp. Use protective gloves when handling chain.

***IMPORTANT*: Do not clamp chainsaw in vise to replace saw chain or guide bar.**

Replace chain when cutters are too worn to sharpen or when chain breaks. Only use replacement chain noted in this manual. Always include new drive sprocket when replacing chain. This will maintain proper driving of chain. *Note:* For proper chain and drive sprocket, see *Parts List*.

Refer to Figure 36 while completing the following steps.

1. Loosen and remove guide bar nuts.
2. Remove sprocket cover.
3. Remove saw chain.
4. Place new chain around drive sprocket, along top groove of guide bar, and around guide bar nose. Note: Make sure cutting edges of chain are facing in right direction. Position chain so cutting edges on top of guide bar face guide bar nose (see Figure 37 and indicator on side cover of saw).
5. Before placing sprocket cover onto guide bar bolts, verify that the adjusting nib is in the adjusting hole on the guide bar.
6. Place sprocket cover onto guide bar bolts.
7. Thread guide bar nuts onto guide bar bolts. IMPORTANT: Finger tighten only.
8. Adjust chain tension. Follow steps under Saw Chain Tension, page 12).
9. Securely tighten guide bar nuts with wrench.

⚠ CAUTION: Do not place chain on saw backwards. If chain is backwards, saw will vibrate badly and will not cut.

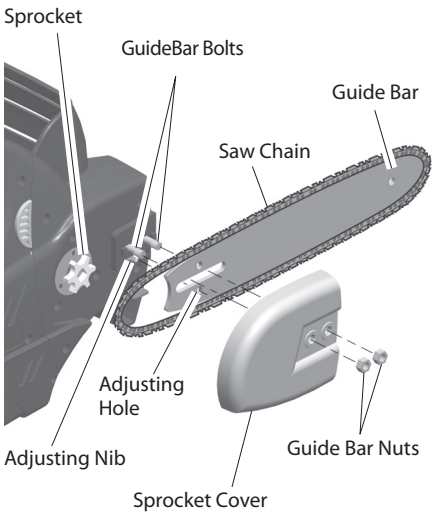


Figure 36- Guide Bar and Saw Chain Replacement

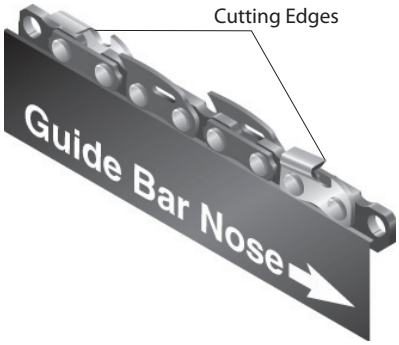


Figure 37 - Correct Installation of Saw Chain

Continued

STORAGE

If storing saw for more than 30 days, follow steps below.

1. Remove battery from chain saw.
2. Charge battery completely. *Note:* It could take up to 9 hours to completely charge the battery.
3. When battery is completely charged, remove from charger and put protective cap on battery terminals.

   IMPORTANT: To prolong battery life, avoid leaving battery on charger for extended periods of time (over 30 days without use).
4. Remove and clean guide bar and chain. Clean guide bar and chain by soaking in petroleum based solvent or mild soap and water mixture.
5. Dry guide bar and chain.
6. Place chain in container filled with oil. This will prevent rust.
7. Wipe a thin coating of oil over surface of guide bar.
8. Wipe off outside of saw body. Do this with soft cloth dampened with a mild soap and water mixture.
9. Store chain saw and battery
   - in a high or locked place, out of children's reach
   - in a dry place
   - in a carrying case or with scabbard over guide bar

TECHNICAL SERVICE

You may have further questions about assembling, operating, or maintaining this product. If so, you can visit our Technical Service web site at **www.remingtonpowertools.com** or contact our Technical Service Department at 1-800-626-2237 (English Only). You may also write to:

DESA Power Tools
P.O. Box 90004
Bowling Green, KY 42102-9004
ATTN: Technical Service

When contacting DESA Power Tools, have ready:

- Your Name
- Your Address
- Your Phone Number
- Model Number of Product
- Date of Purchase (Include copy of receipt for written requests).

REPLACEMENT PARTS AND ACCESSORIES

⚠ WARNING: Use only replacement parts and accessories described in this manual. Use of other parts or accessories could damage saw or injure operator.

For original replacement parts and accessories, contact your nearest Authorized Dealer or Authorized Service Center for this product. If they can not supply the part or accessory, contact your nearest Parts Central listed on page 45 . Each Authorized Dealer, Authorized Service Center, and Parts Central is independently owned and operated. You may also order parts from the "Online Outlet" at **www.remingtonpowertools.com.**

See pages 43 through 44 for an Illustrated Parts List.

If you need additional referral information, contact our Technical Service Department (see *Technical Service*).

REPAIR SERVICE

Note: Only use original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

WARRANTY SERVICE

If product requires warranty service, return it to nearest Authorized Service Center. You must show proof of purchase. If faulty materials or workmanship caused damage, we will repair or replace product without charge. *Note:* Normal wear, misuse, abuse, neglect, or accidental damage is not covered under warranty.

NON-WARRANTY SERVICE

If product requires service, return it to nearest Authorized Service Center. Repairs will be billed to you at regular repair list prices.

For additional Service Center or warranty information, call 1-800-626-2237 or visit our Technical Service web site at **www.remingtonpowertools.com.**

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

BATTERY DISPOSAL AND RECYCLING

This product uses nickel-cadnium bateries. Local, state, or federal laws may prohibit disposal of nickel-cadnium batteries in the ordinary trash.

To help protect the environment and conserve natural resources, please dispose of batteries properly. You may contact your local recycling center for information on where to drop off the batteries.

TROUBLESHOOTING

Note: For additional help, visit DESA Power Tools' technical service web site at **www.remingtonpowertools.com.**

⚠ WARNING: Remove battery from chain saw before adjusting saw chain tension. Severe injury or death could occur from body contact with moving chain.

OBSERVED FAULT	POSSIBLE CAUSE	REMEDY
Saw runs, but does not cut	1. Chain assembled backwards on guide bar,	1. See Replacing Saw Chain
Saw does not cut unless heavily forced. Cutting produces only sawdust with few large chips	1. Chain is dull,	1. See Sharpening Saw Chain
Saw runs slow. Saw stalls easily	1. Battery is nearly depleted	1. Recharge battery completely until red LED turns off.
Motor of saw does not run when you squeeze trigger	1. Battery not installed properly, 2. Battery not charged, 3. Trigger lockout not pressed in to release trigger, 4. Worn out motor brushes, 5. Open wiring circuit on saw	1. Verify battery is installed properly. 2. Check battery charging requirements. 3. Press in trigger lockout before squeezing trigger, 4. Contact DESA Power Tools Technical Service. 5. Contact DESA Power Tools Technical Service.
Motor of saw runs, but chain does not move	1. Gear train failure	1. Contact DESA Power Tools Technical Service.
Chain comes off guide bar	1. Chain is loose 2. Guide bar and chain not assembled correctly	1. Tighten chain. See Saw Chain Tension 2. See Replacing Saw Chain
Battery dies quickly	1. Battery not fully charged 2. Chain tension too tight 3. Old battery that does not hold charge.	1. Recharge battery completely 2. See Saw Chain Tension and Adjusting Saw Chain Tension 3. Replace battery
Battery not charging	1. Charger not plugged in 2. Charger cord not plugged into charger base 3. Battery not fully inserted into charger base. 4. Battery is too hot from use.	1. Plug charger into 120V 60HZ AC source 2. Ensure charger cord is fully inserted into charger base. 3. Slide battery fully into charger base 4. Allow battery to cool for 30 minutes before placing in the charger.

WARRANTY INFORMATION

REMINGTON BRAND 18V CORDLESS POLESAW/CHAIN SAW LIMITED WARRANTIES

NEW PRODUCTS

Standard Warranty

DESA Power Tools warrants this new product and any parts thereof to be free from defects in material and workmanship for a period of two (2) years from the date of first purchase from an authorized dealer provided the product has been maintained and operated in accordance with DESA Power Tools' warnings and instructions.

Standard Warranty Battery

DESA Power Tools warrants this new battery and any parts thereof to be free from defects in material and workmanship for a period of six (6) months from the date of first purchase from an authorized dealer provided the product has been maintained and operated in accordance with DESA Power Tools' warnings and instructions.

FACTORY RECONDITIONED PRODUCTS

Limited Warranty

DESA Power Tools warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for 90 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with DESA Power Tools' warnings and instructions.

TERMS COMMON TO ALL WARRANTIES

The following terms apply to all of the above warranties:

- Always specify model number when contacting the manufacturer. To make a claim under this warranty the bill of sale or other proof of purchase must be presented.
- This warranty is extended only to the original retail purchaser when purchased from an authorized dealer.
- This warranty covers the cost of part(s) required to restore this product to proper operating condition and an allowance for labor when provided by a DESA Power Tools Authorized Service Center. Warranty parts must be obtained through authorized dealers of this product and/or DESA Power Tools who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.
- Travel, handling, transportation, diagnostic, material, labor and incidental costs associated with warranty repairs, unless expressly covered by this warranty, are not reimbursable under this warranty and are the responsibility of the owner.
- Excluded from this warranty are products or parts that fail or become damaged due to misuse, accidents, lack of proper maintenance, tampering, or alterations.
- Excluded from this warranty are products purchased for commercial, industrial or rental usage.
- This is DESA Power Tools' exclusive warranty, and to the full extent allowed by law; this express warranty excludes any and all other warranties, express or implied, written or verbal and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to two (2) years on new products, six (6) months on battiers and 90 days on factory reconditioned products from the date of first purchase. DESA Power Tools makes no other warranties regarding this product.
- DESA Power Tools' liability is limited to the purchase price of the product, and DESA Power Tools shall not be liable for any other damages whatsoever under any circumstances including indirect, incidental, or consequential damages.
- Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For information about this warranty contact:

DESA POWER TOOLS

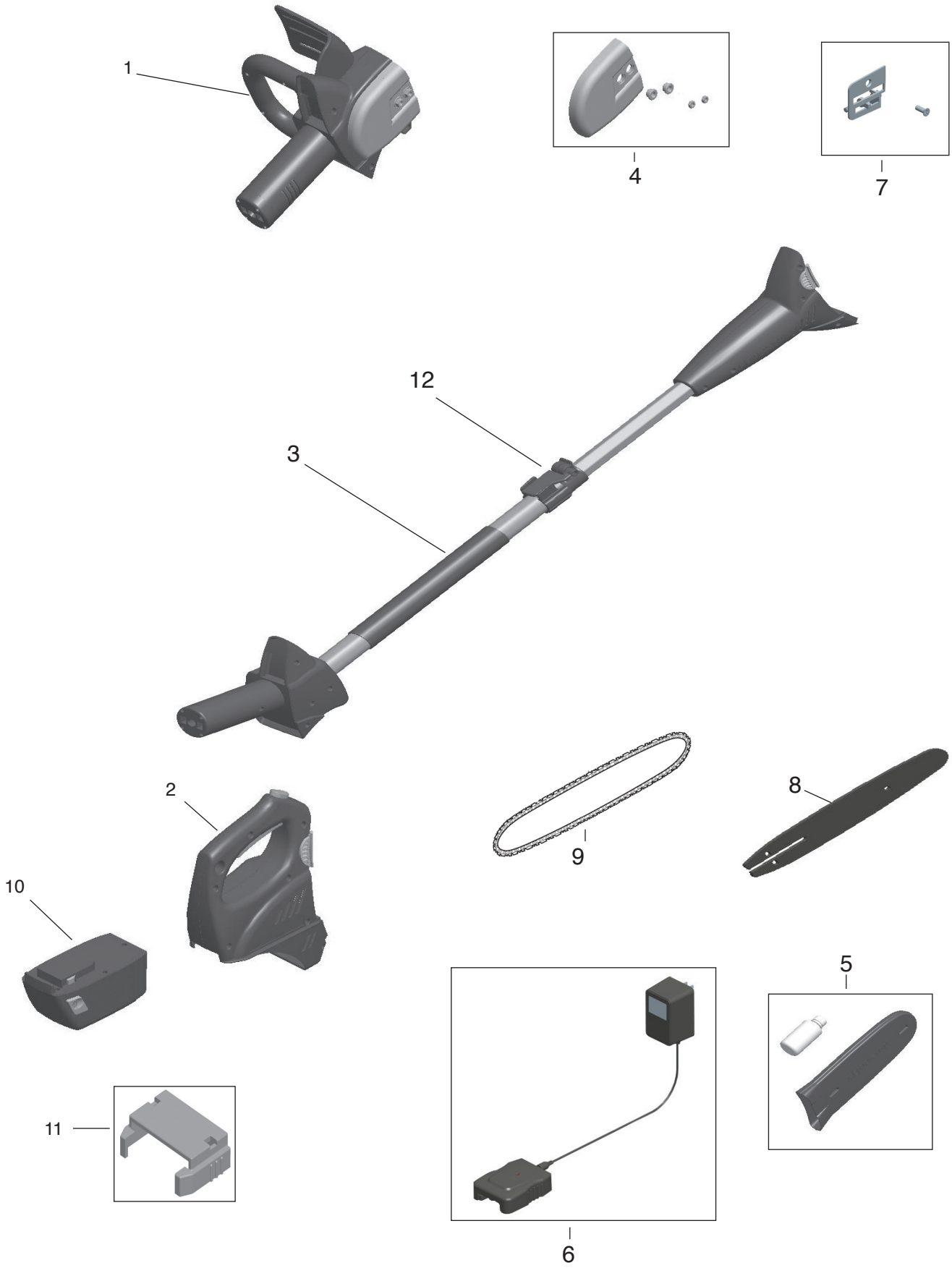
P.O. Box 90004
Bowling Green, KY 42102-9004

www.remingtonpowertools.com
1-800-626-2237 (English Only)

Model _____

Date Purchased _____

NOTES/NOTAS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PARTS LIST/LISTA DE REPUESTOS

This list contains replaceable parts used in your chainsaw/polesaw. When ordering parts, be sure to provide the correct model number (from the model plate), then the part number and description of the desired part.

Esta lista contiene partes reemplazables y que se utilizan en su sierra de cadena. Cuando solicite repuestos, asegúrese de facilitar el número correcto del modelo (de la placa del modelo), luego el número de parte y la descripción de la parte deseada.

KEY NO. / NÚMERO CLAVE	PART NO./ NÚMERO DE PARTE	DESCRIPTION / DESCRIPCIÓN	QTY. CANTIDAD QTÉ	
			BS188A	BPS188A
1	121363-01	Assembly, Powerhead/Ensamblado, Cabezal motorizado	1	1
2	121364-01	Assembly, Main Handle/Ensamblado, Asa principal	1	1
3	123299-01	Assembly, DC Chainsaw Pole/Ensamblado, pértiga de la sierra de cadena de CC		1
4	121373-01	Kit, Sprocket Cover (Includes Sprocket Cover,Bushings & Guide Bar Nuts) Juego, Tapa de la rueda dentada (Incluye la tapa de la rueda dentada,los bujes y Perno de la barra guía tuerca)	1	1
5	121374-01	Kit, Scabbard (Includes Scabbard and Oil Bottle) Juego, Funda (Incluye la funda y la botella de aceite)	1	1
6	121397-01	Kit, Battery Charger (500MAH)(Includes Charger and Charger Base) Juego, Cargador de la batería (500MAH) (Incluye el cargador y la base del cargador)	1	1
7	121400-01	Kit, Tensioning (Includes: Bar Pad, Tensioning Screw, Tensioning Nib & Mounting Screw Juego, Tensionamiento (Incluye: almohadilla de la barra, tornillo tensor, punta tensora y tornillo de montaje	1	1
8	8SB	Bar, Guide 8" / Barra guía de 8 pulgadas	1	1
9	8SC	Chain, Saw (8") / Cadena de la sierra (8 pi;gadas)	1	1
10	RB18V1	18 Volt Rechargable Battery/Batería recargable de 18 voltios	1	1
11	121390-01	Cover, battery Terminal Cap/Cubierta, tapa del terminal de la batería	1	1
12	121560-01	KIt, Latch Lever/Juego, Palanca del pestillor		1

PARTS CENTRALS / CENTRAL DE PIESAZ

Ray's Portable Heater Service
3191 Myers Road
Camino, CA 95709-9550
530-644-7716

Baltimore Electric
5 Manila Drive
Hamden, CT 06514-0322
203-248-7553
1-800-397-7553

Eckley's Small Engine
31617 Spruce Drive
Eustis, FL 32726-9592
352-357-6764

Bernie's Tools & Fasteners
2322 NE Waldo Rd
Gainesville, FL 32609
352-375-1244

Bernie's Tools & Fasteners
4211 Highway Avenue
Jacksonville, FL 32254
904-384-4999

Parts Company of America
1657 Shermer Road
Northbrook, IL 60062-5362
708-498-5900
1-800-323-0620
www.grainger.com

Portable Heater Parts
342 North County Road 400 East
Valparaiso, IN 46383-9704
219-462-7441
1-800-362-6951
www.portableheaterparts.com
sales@portableheaterparts.com
techservice@portableheaterparts.com

Lyons & Lyons Sales Co. Inc.
Glen Arm Road
Glen Arm, MD 21057-9454
410-665-6500
1-800-333-5966
lyonsco@erols.com

Master Part Distributors
1251 Mound Avenue NW
Grand Rapids, MI 49504-2672
616-791-0505
1-800-446-1446
www.masterparts.net

Hance Distributors, Inc.
12795 16th Avenue North
Plymouth, MN 55441-4556
763-559-2299
www.hanceco.com

Automotive Equipment Service
3117 Holmes
Kansas City, MO 64109-1716
816-531-9144
1-800-843-3546
www.aes-lawnparts.com

Bowden Electric Motor Service
1681 S. Wesleyan Blvd.
Rocky Mount, NC 27803
252-446-4203

East Coast Energy
10 East Route 36
West Long Branch, NJ 07764-1501
1-800-755-8809

Forrest Lytle and Sons, Inc.
740 West Galbraith Road
Cincinnati, OH 45231-6002
513-521-1464

Bortz Chain Saw Shop
Road #2, Box 64A
Oley, PA 19547-9412
610-987-6452

21st Century
2950 Fretz Valley Road
Perkasie, PA 18944-4034
215-795-0400
1-800-325-4828

Laportes
2444 N 5th Street
Hartsville, SC 29550-7704
843-332-0191

MTA Distributors
555 Hickory Hills Blvd.
Nashville, TN 37189-9244
615-299-8777
1-800-264-0225

Webbs Appliance Center
1519 Church Street
Nashville, TN 37203-3004
615-329-4079
1-800-899-4079

Industrial Hardware
4109 Bainbridge Blvd.
Chesapeake, VA 23324-1403
804-543-2232
1-800-788-0008
catatem@erols.com

Mills Lawn and Garden
928 Commonwealth Place
Virginia Beach, VA 23464
757-361-9293
www.mills-parts.com

Tuco Industrial Products
5223 180th Street SW
Suite 4A-1
Lynnwood, WA 98037-4506
425-743-9533
1-800-735-1268
www.tucoheat.com

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